

Applicant: Geoffrey S. Martin et al.

Att'y Docket No. 2409.3273.3US

Continuation Application of:

Group: 3262

Serial No.: 139,705

For: MULTIPLE LUMEN CATHETER

Filing Date: August 25, 1998

Prior Examiner: Ronald K. Stright, Jr.

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JG9034 US PTO  
09/09/958  
03/27/01INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
KCS A1	Re.31,873	04/30/85	Howes	128	674	01/19/83
A2	Des.272,651	02/14/84	Mahurkar	D24	54	11/02/81
A3	0,550,238	11/26/1895	Allen, Jr.	---	---	05/20/1895
A4	1,696,018	12/18/28	Schellberg	---	---	07/10/26
A5	1,922,084	04/24/31	Gerow	128	349	08/15/33
A6	2,173,527	09/19/39	Agayoff	128	349	02/23/37
A7	2,175,726	10/10/39	Gebauer	128	349	11/26/38
A8	2,230,218	06/02/38	Asche	128	276	02/04/41
A9	2,409,343	04/05/43	Curtis	128	214	10/15/46
A10	2,473,742	06/21/49	Auzin	128	349	12/28/44
A11	2,561,569	07/24/51	Flynn	18	13	01/10/47
A12	2,564,977	08/21/51	Quang Hsi Hu	128	218	01/19/49
A13	2,590,895	04/01/52	Scarpellino	128	221	11/21/49
A14	2,819,718	07/16/53	Goldman	128	350	01/14/58
A15	2,936,761	05/17/60	Snyder	128	349	04/25/58
A16	3,042,045	07/03/62	Sheridan	128	349	07/02/58
A17	3,055,361	09/25/62	Ballard	128	214	04/22/60
A18	3,064,653	11/20/62	Coanda	128	348	06/04/59
A19	3,174,890	03/23/65	Goyke	156	272	07/10/61
A20	3,322,590	05/30/67	Clark	156	273	03/09/64

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
KCS	A21 3,324,854	06/18/67	Weese	128	215	04/23/64
	A22 3,331,371	07/18/67	Rochi	128	349	03/09/65
	A23 3,359,974	12/26/67	Khalil	128	2.05	10/07/63
	A24 3,370,587	02/27/68	Vizcarra	128	214.4	07/17/62
	A25 3,394,705	07/30/68	Abramson	128	349	10/22/65
	A26 3,411,506	11/19/68	Velasco	128	325	04/11/66
	A27 3,437,088	04/08/69	Bielinski	128	2	12/01/66
	A28 3,448,739	06/10/69	Stark et al.	128	2.05	08/22/66
	A29 3,452,756	07/01/69	Harautuneian	128	349	10/10/66
	A30 3,467,180	09/16/69	Pensotti	165	180	03/30/66
	A31 3,469,579	09/30/69	Hubert	128	214.4	05/05/67
	A32 3,528,869	09/15/70	Dereniuk	156	294	02/28/68
	A33 3,593,713	07/20/71	Bogoff	128	246	07/12/68
	A34 3,625,793	12/07/71	Sheridan	156	229	09/23/69
	A35 3,634,924	01/18/72	Blake et al.	29	447	04/20/70
	A36 3,720,210	03/13/73	Dietrich	128	214.4	03/03/71
	A37 3,726,281	04/10/73	Norton et al.	128	349	12/08/71
	A38 3,746,003	07/17/73	Blake	128	349 B	09/23/71
	A39 3,746,033	07/17/73	Keiper, II	137	205	08/05/71
	A40 3,771,527	11/13/73	Ruisi	128	350 R	08/16/71
	A41 3,804,097	04/16/74	Rudie	128	350 R	12/14/72

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
JKS	A42 3,805,794	04/23/74	Schlesinger	128	349	12/18/72
	A43 3,817,389	06/18/74	Weichselbaum	210	448	01/15/73
	A44 3,848,602	11/19/74	Gutnick	128	344	04/19/72
	A45 3,885,567	05/27/75	Ross	128	278	02/20/73
	A46 3,888,249	06/10/75	Spencer	128	214 R	11/02/73
	A47 3,976,529	08/24/76	Weichselbaum	156	272	01/31/74
	A48 3,983,203	09/28/76	Corbett	264	150	11/16/73
	A49 3,995,623	12/07/76	Blake et al.	128	2.06	02/11/76
	A50 4,003,665	01/18/77	Dreyer et al.	401	259	03/20/75
	A51 4,004,588	01/25/77	Alexander	128	241	08/25/75
	A52 4,016,879	04/12/77	Mellor	128	214.4	04/07/75
	A53 4,027,668	06/07/77	Dunn	128	214 R	12/10/75
	A54 4,037,599	07/26/77	Raulerson	128	214.4	01/26/76
	A55 4,050,667	09/27/77	Kossett	249	82	11/26/75
	A56 4,057,065	11/08/77	Thow	128	348	06/21/76
	A57 4,063,980	12/20/77	Trunnell	156	165	05/19/75
	A58 4,072,146	02/07/78	Howes	128	2.05 D	09/08/76
	A59 4,072,153	02/07/78	Swartz	128	348	03/03/76
	A60 4,098,275	07/04/78	Consalvo	128	214 R	12/20/76
	A61 4,099,528	07/11/78	Sorenson et al.	128	214.40	02/17/77
✓	A62 4,100,246	07/11/78	Frisch	264	230	06/21/76

(continued)

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KCS A63	4,134,402	01/16/79	Mahurkar	128	214 R	07/05/77
A64	4,168,703	09/25/79	Kenigsberg	128	748	07/18/77
A65	4,171,943	10/23/79	Tschanz et al.	425	392	01/25/78
A66	4,178,936	12/12/79	Newcomb	128	349 B	07/27/77
A67	4,180,068	12/25/79	Jacobsen et al.	128	214 R	04/13/78
A68	4,180,076	12/25/79	Betancourt	128	349	01/13/78
A69	4,198,984	04/22/80	Taylor	128	349 BV	05/04/78
A70	4,202,332	05/13/80	Tersteegen	128	214.4	01/05/78
A71	4,203,436	05/20/80	Grimsrud	128	214 R	03/28/78
A72	4,210,479	07/01/80	Fabisiewicz	156	273	06/14/78
A73	4,214,593	07/29/80	Imbruce et al.	128	748	09/18/78
A74	4,217,895	08/19/80	Sagae et al.	128	214.4	05/26/78
A75	4,248,224	02/03/81	Jones	128	214	08/01/78
A76	4,251,305	02/17/81	Becker et al.	604	103	11/01/78
A77	4,268,338	05/19/81	Peterson	156	251	08/20/79
A78	4,270,535	06/02/81	Bogue et al.	128	214.4	10/18/79
A79	4,299,226	11/10/81	Banka	128	344	08/08/79
A80	4,309,994	01/12/82	Grunwald	128	214 R	02/25/80
A81	4,336,036	06/22/82	Leeke et al.	55	159	01/08/81
A82	4,352,354	10/05/82	Ujihara	128	214 R	03/04/81
A83	4,354,495	10/19/82	Bodicky	128	348	10/30/80

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JKS	A84	4,364,394	12/21/82	Wilkinson	604	96	11/24/80
	A85	4,384,186	05/17/83	Burt	219	10.81	07/23/81
	A86	4,385,631	05/31/83	Uthmann	604	284	03/18/81
	A87	4,390,383	06/28/83	van Dongeren	156	294	03/25/81
	A88	4,392,848	07/12/83	Lucas et al.	604	53	06/25/79
	A89	4,398,910	08/16/83	Blake et al.	604	93	02/26/81
	A90	4,403,983	09/13/83	Edelman et al.	604	43	11/06/81
	A91	4,403,985	09/13/83	Boretos	604	53	05/12/81
	A92	4,404,159	09/13/83	McFarlane	264	296	03/16/81
	A93	4,405,313	09/20/83	Sisley et al.	604	43	01/29/82
	A94	4,406,656	09/27/83	Hattler et al.	604	280	06/01/81
	A95	4,419,095	12/06/83	Nebergall et al.	604	96	05/14/80
	A96	4,425,177	01/10/84	Shinno	156	272.2	09/28/82
	A97	4,451,252	05/29/84	Martin	604	43	07/24/81
	A98	4,484,585	11/27/84	Baier	128	748	09/02/82
	A99	4,493,696	01/15/85	Uldall	604	43	05/04/84
	A100	4,496,353	01/29/85	Overland et al.	604	272	09/09/82
	A101	4,543,087	09/24/85	Sommercorn et al.	604	43	11/14/83
	A102	4,545,390	10/08/85	Leary	128	772	09/22/82
	A103	4,551,292	11/05/85	Fletcher et al.	264	139	04/05/84
	A104	4,568,329	02/04/86	Mahurkar	604	43	10/01/84

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JLC5	A105	03/04/86	Weikl et al.	604	53	11/24/82
	A106	04/22/86	Mahurkar	604	280	08/15/84
	A107	10/28/86	Bai	604	43	06/18/84
	A108	11/18/86	Mahurkar	604	4	02/12/85
	A109	02/17/87	Bates	604	4	05/25/84
	A110	04/28/87	Daugherty	264	40.6	03/11/86
	A111	05/26/87	Luther	604	168	01/27/85
	A112	05/26/87	Russo et al.	604	280	12/23/85
	A113	06/02/87	Bullock	604	280	04/16/85
	A114	07/21/87	Landreneau	604	280	10/21/85
	A115	07/28/87	Martin	604	43	05/15/85
	A116	09/08/87	Mahurkar	604	43	01/29/86
	A117	10/20/87	Brown et al.	604	43	11/07/85
	A118	12/22/87	Calderon	604	28	06/06/86
	A119	01/05/88	Ekholmer	604	43	07/01/85
	A120	06/07/88	Patel	128	658	05/29/87
	A121	06/28/88	Nichols et al.	604	247	10/06/86
	A122	07/12/88	Kawashima et al.	128	6	09/26/86
	A123	08/09/88	Hussein	128	6	06/08/87
	A124	08/16/88	Jang	128	344	09/10/86
↓	A125	09/06/88	Ginsburg et al.	604	164	08/06/87

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<u>kcs</u>	A126 4,772,268	09/20/88	Bates	604	43	11/03/86
	A127 4,782,834	11/08/88	Maguire et al.	128	344	01/06/87
	A128 4,790,813	12/13/88	Kensey	604	22	05/30/86
	A129 4,795,439	01/03/89	Guest	604	43	04/08/88
	A130 4,801,297	01/31/89	Mueller	604	280	06/01/84
	A131 4,813,429	03/21/89	Eshel et al.	128	736	05/05/87
	A132 4,822,345	03/16/88	Danforth	604	282	04/18/89
	A133 4,838,881	06/13/89	Bennett	604	280	09/29/88
	A134 4,842,582	06/27/89	Mahurkar	604	43	04/19/88
	A135 4,867,742	08/07/87	Calderon	604	28	09/19/89
	A136 4,894,057	01/16/90	Howes	604	280	06/19/87
	A137 4,898,591	02/06/90	Jang et al.	604	282	08/09/88
	A138 4,934,340	06/19/90	Ebling et al.	128	6	06/08/89
	A139 4,961,809	10/09/90	Martin	604	280	04/21/88
	A140 4,968,307	11/06/90	Dake et al.	604	280	04/10/89
	A141 4,995,865	02/26/91	Gahara et al.	604	43	06/09/89
	A142 5,004,455	04/02/91	Greenwood et al.	604	43	07/17/89
	A143 5,007,897	04/16/91	Kalb et al.	604	43	05/30/89
	A144 5,009,636	04/23/91	Wortley et al.	604	43	12/06/89
	A145 5,015,232	05/14/91	Maglinte	604	96	04/20/89
	A146 5,019,057	05/28/91	Truckai	604	282	10/23/89

(continued)

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<u>JCC</u>	A147	5,021,044	06/04/91	Sharkawy	604	53	01/30/89
	A148	5,057,073	10/15/91	Martin	604	43	06/26/90
	A149	5,135,599	08/04/92	Martin et al.	156	294	05/13/91
	A150	5,167,623	12/01/92	Cianci et al.	604	43	12/27/90
	A151	5,195,962	03/23/93	Martin et al.	604	43	12/22/88
	A152	5,207,650	05/04/93	Martin	604	173	03/19/92
	A153	5,221,255	06/22/93	Mahurkar et al.	604	43	10/16/91
	A154	5,221,256	06/22/93	Mahurkar	604	43	02/10/92
	A155	5,236,417	08/17/93	Wallis	604	164	09/22/92
	A156	5,472,417	12/05/95	Martin et al.	604	43	03/03/94
	A157	5,451,206	09/19/95	Young	604	43	09/20/94
↓	A158	5,797,869	08/25/98	Martin et al.	604	43	06/07/95

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publ. Date</u>	<u>Country or Patent Office</u>	<u>Sub Class</u>	<u>Class</u>	<u>Trans-lation</u>	
<u>KCS</u>	A159	0,834,211	02/02/76	Belgium	128	221	No
	A160	0,050,089	08/09/82	Canada	---	---	---
	A161	0,960,932	01/14/75	Canada	128	127	---
	A162	1,092,927	01/06/81	Canada	128	127	---
	A163	1,112,533	11/17/81	Canada	52	128	---
↓	A164	1,150,122	07/19/83	Canada	128	81	---

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Simmons

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KCS	A165 1,167,727	05/22/84	Canada	128	80	---
	A166 0,025,704 B1	10/19/83	Europe	25/00	A61M	---
	A167 0,036,642 A2	09/30/81	Europe	25/00	A61M	No
	A168 0,079,719 A1	05/25/83	Europe	5/00	A61M	---
	A169 0,161,863 B1	07/25/90	Europe	25/00	A61M	---
	A170 0,322,225 A2	12/21/88	Europe	25/00	A61M	---
	A171 0,333,308 A2	09/20/89	Europe	25/00	A61M	---
	A172 0,381,062 B1	03/23/94	Europe	25/00	A61M	---
	A173 0,440,992 A2	12/31/90	Europe	25/00	A61M	---
	A174 0,555,780 A2	02/05/93	Europe	25/00	A61M	---
	A175 0,804,309	10/21/36	France	A61b	A61M	No
	A176 1,285,953	01/22/62	France	A61b	A61M	No
	A177 1,508,959	01/22/62	France	A61b	A61M	No
	A178 2,201,908	10/10/72	France	25/00	A61M	Yes
	A179 2,285,148	09/20/74	France	01/00	A01M	No
	A180 2,297,640	01/15/75	France	25/00	A61M	No
	A181 2,513,520	04/01/83	France	25/00	A61M	No
	A182 2,530,958	07/29/82	France	A61M	25/00	Yes
	A183 2,565,491	06/08/84	France	25/00	A61M	No
	A184 MR 19 346	04/15/82	Germany	421	82	Yes
↓	A185 0,195,412	05/16/07	Germany	30	17	No

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Examiner Initial*	Document Number	Publ. Date	Country or Patent Office	Sub Class	Class	Trans-lation
KCS	A186 2,447,804 A1	10/08/74	Germany	5/14	A61M	No
	A187 3,130,454 C2	04/04/85	Germany	5/14	A61M	No
	A188 3,506,738 A1	11/05/85	Germany	53/00	B29 C	No
	A189 3,112,762 C2	06/09/88	Germany	25/00	A61M	No
	A190 54-34,587	08/22/77	Japan	5/14	A61M	Yes
	A191 55-40,512	09/16/78	Japan	5/14	A61M	Yes
	A192 1,419,702	12/31/75	United Kingdom	A61M	A61B	---
↓	A193 2,043,449	10/08/80	United Kingdom	25/00	A61M	---

Other Documents

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- \_\_\_\_\_ A194 Arrow International, Inc., 510(k) Notification Multi-Lumen M.I.S.™ Catheterization System (April 14, 1982).
- \_\_\_\_\_ A195 Arrow International, Inc., 510(k) Notification Arrow Central Venous Multi-Lumen Catheter with Flex Tip (August 25, 1986).
- \_\_\_\_\_ A196 Arrow International, Inc. Arrow®-Howes™ Multi-Lumen Central Venous Catheterization Kit (*circa* 1986).
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Applicant: Geoffrey S. Martin et al.  
Continuation Application of:

Att'y Docket No. 2409.3273.3US  
Group: 3262

Serial No.: 139,705  
For: MULTIPLE LUMEN CATHETER  
Filing Date: August 25, 1998  
Prior Examiner: Ronald K. Straight, Jr.

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Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

Applicant: Geoffrey S. Martin et al.  
Continuation Application of:

Att'y Docket No. 2409.3273.3US  
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Serial No.: 139,705  
For: MULTIPLE LUMEN CATHETER  
Filing Date: August 25, 1998  
Prior Examiner: Ronald K. Straight, Jr.

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The reference designations "A1", "A2", etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A", "B", "C", etc. on Office Action Form PTO-1142.

Applicant: Geoffrey S. Martin et al.

Att'y Docket No. 2409.3273.3US

Serial No.: 09/819,458

Group: 3763

Filing Date: March 27, 2001

For: MULTIPLE LUMEN CATHETER

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub Class</u>	<u>Filing Date</u>
KCS A1	256,590	04/18/1882	Pfarre			12/19/1881
A2	701,075	05/27/1902	McCully			02/19/1902
A3	1,060,665	05/06/1913	Bell			07/29/1910
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A18	6,206,849	03/27/2001	Martin et al.	604	43	08/25/1998

Examiner:

Simmons

Date Considered:

2/18/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Geoffrey S. Martin et al.  
Serial No.: 09/819,458  
Filing Date: March 27, 2001  
For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 2409.3273.3US  
Group: 3763

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publ. Date</u>	<u>Country or Patent Office</u>	<u>Sub Class</u>	<u>Class</u>	<u>Trans-lation</u>
KCS	A19 1,225,299 ✓	08/11/1987	Canada	A 61 M 25/00		Yes
	A20 1,216,205 ✓	01/06/1987	Canada	A 61 M 1/10		Yes
	A21 1,330,285 ✓	06/21/1994	Canada	A 61 M 25/00		Yes
	A22 117,093 A2 ✓	08/29/1984	Europe	A 61 M 25/00		Yes
	A23 117,093 B1 ✓	04/06/1988	Europe	A 61 M 25/00		Yes
	A24 322,225 A2 ✓	06/28/1989	Europe	A 61 M 25/00		Yes
	A25 322,225 A3 ✓	05/02/1991	Europe	A 61 M 25/00		Yes
	A26 322,225 B1 ✓	02/05/1995	Europe	A 61 M 25/00		Yes
	A27 322,225 FR ✓	03/24/1995	France	A 61 M 25/00		No
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Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner Initial\*

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Examiner: SimonsDate Considered: 2/18/04

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Form PTO-1449

Applicant: Geoffrey S. Martin et al.  
 Serial No.: 09/819,458  
 Filing Date: March 27, 2001  
 For: MULTIPLE LUMEN CATHETER

Att'y Docket No. 2409.3273.3US  
 Group: 3763

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Examiner: *Sirmons*

Date Considered: *2/18/04*

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